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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/509,663	09/29/2004	Valery Bauer	BAUER V 2 PCT	BAUER V 2 PCT 2358	
25889	7590 10/06/2005		EXAMINER		
WILLIAM COLLARD COLLARD & ROE, P.C.			BENTON, JASON		
1077 NORTHERN BOULEVARD			ART UNIT	PAPER NUMBER	
ROSLYN, NY 11576			3747		
			DATE MAILED: 10/06/2003	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		E		
		Application No. Applicant(s)		
Office Action Summary		10/509,663	BAUER, VALERY	
		Examiner	Art Unit	
		Jason Benton	3747	
The Period for Re	e MAILING DATE of this communication ap ply	pears on the cover sheet with the	correspondence address	•
WHICHEN - Extensions after SIX (6 - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD FOR REPL /ER IS LONGER, FROM THE MAILING D of time may be available under the provisions of 37 CFR 1.) MONTHS from the mailing date of this communication. If for reply is specified above, the maximum statutory period pply within the set or extended period for reply will, by statuted servived by the Office later than three months after the mailing and term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status				".
·	ponsive to communication(s) filed on		·	·
<i>,</i> —	e action is FINAL . 2b)⊠ Thi te this application is in condition for allowa	s action is non-final.	osecution as to the marite is	
-	ed in accordance with the practice under			
CiOS	ed in accordance with the practice under	Ex parte Quayle, 1900 O.D. 11, 4	00 0.0. 210.	
Disposition o	f Claims			Å
4)⊠ Clai	m(s) <u>1-5</u> is/are pending in the application.			. 3
•	Of the above claim(s) is/are withdra	awn from consideration.		٠.
•	m(s) is/are allowed.			, s
· _	m(s) <u>1 and 4</u> is/are rejected.			:
	m(s) <u>2,3 and 5</u> is/are objected to.	ar algetion requirement		
8)L Clai	m(s) are subject to restriction and/	or election requirement.		
Application F	apers			:.
9) <u></u> The	specification is objected to by the Examin	er.	:	·.
10)⊠ The	drawing(s) filed on 29 September 2004 is	/are: a)⊠ accepted or b)□ object	cted to by the Examiner.	, -
App	icant may not request that any objection to the	e drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).	
•	acement drawing sheet(s) including the corre			3
11) <u></u> The	oath or declaration is objected to by the E	Examiner. Note the attached Office	e Action or form PTO-152.	
Priority unde	r 35 U.S.C. § 119			
12)⊠ Ackr a)⊠ Al	nowledgment is made of a claim for foreig I b)☐ Some * c)☐ None of:	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).	./*
,	Certified copies of the priority documer	nts have been received.		٠.
_	Certified copies of the priority documer		tion No	
3.	Copies of the certified copies of the price	ority documents have been receiv	red in this National Stage	
	application from the International Burea			
* See t	he attached detailed Office action for a lis	t of the certified copies not receiv	ed.	.•
			CENTY NICE	: ~
Attachment(s)			Primary Excus.	` .

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 11/15/04, 9/29/04.

4)	Interview Summary (PTO-413)
	Paper No(s)/Mail Date	

Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____.

Application/Control Number: 10/509,663

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bontaz in view of Kaneko.

The patent by Bontaz (5,881,684) shows an internal combustion engine piston that is provided with a cooling duct (10) the cooling duct can have a free cooling oil stream applied to it by way of the oil inlet, by means of an oil spraying nozzle rigidly connected with the engine housing from the crank space, through the free interior of the piston shaft.

The patent by Bontaz does not specifically disclose the inner wall surface of the oil inlet is shaped according to a function of a one-sheeted rotating hyperboloid or of a surface —delimited torus. The patent by Kaneko (6,494,387) shows that the hyperboloid shape phelps promote fluid transfer there-through (Col. 3, lines 18-37). In view of Kaneko, it would have been obvious to anyone skilled in the art who wanted to promote better flow through the inlet to improve on Bontaz by shaping the inlet inner wall according to a rotating hyperboloid.

The cross sectional areas of the oil inlet are arranged approximately in the plane of the circular cover of the cooling duct.

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Allowable Subject Matter

Claims 2, 3, and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Benton whose telephone number is (571) 272-4838. The examiner can normally be reached on flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on (571) 272-4856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JB

Primary Examination